



KAPITAŁ LUDZKI
NARODOWA STRATEGIA SPÓJNOŚCI

UNIA EUROPEJSKA
EUROPEJSKI
FUNDUSZ SPOŁECZNY



"Modern engineering technology in aviation and medical fields"

Visiting Professor: dr Jacob Bortman (Ben Gurion University of Negev- Beer Sheva, Israel)

Short description of the lecture:

In the seminar I'll describe the challenges and the new technology of the aeronautical industry that was incorporated in the Israeli Air Force. I'll present my experience as well as new research done in Ben Gurion University related to the fields of composite materials, HUMS - Health Usage Monitoring, UAV - Unmanned Aerial Vehicle.

A comparison between the research process in the aviation and the medical fields will be presented. Then, a basic research in modeling of the human heart and its application will be discussed. Finally, I'll talk about my experience as being a director in Van Leer Incubator VC.

Syllabus of the lecture subjects (enlisted):

1. Composite materials in aviation – the challenge
2. Research and development process in the medical versus in the aviation fields
3. Machinery health monitoring based on vibration analysis:
 - a. Background
 - b. The state of the art
 - c. Modeling and testing
 - d. The vision
4. Finite element modeling of the human heart– testing and analysis



5. Unmanned aerial vehicle – past, present and the future

- a. Background
- b. Technology
- c. The vision

6. Hi-tech in Israel – Venture investments and building entrepreneurship

TERMINY WYKŁADÓW			
Data	Dzień tygodnia	Godzina	Sala
2015-01-26	Pn	9.15-12.00	EiA E28
2015-01-27	Wt	8.15-12.00	EiA E27
2015-01-28	Śr	9.15-13.00	EiA E27
2015-01-29	Cz	8.15-12.00	EiA E28